

PAGE: 1

**RAW SEQUENCE LISTING
PATENT APPLICATION - US/08/849,404**DATE: 09/09/97
TIME: 12:33:19**INPUT SET: S20138.raw**

This Raw Listing contains the General
Information Section and up to the first 5 pages.

#499-
ENTERED 09-22-97

SEQUENCE LISTING

1

2

3 (1) General Information:

4

5 (i) APPLICANT: LISA ANNE LAFFEND
6 VASANTHA NAGARAJAN
7 CHARLES EDWIN NAKAMURA

8

9 (ii) TITLE OF INVENTION: BIOCONVERSION OF A FERMENTABLE
10 CARBON SOURCE TO 1,3-PROPANE-
11 DIOL BY A SINGLE MICROORGANISM

12

13 (iii) NUMBER OF SEQUENCES: 46

14

15 (iv) CORRESPONDENCE ADDRESS:

16 (A) ADDRESSEE: E. I. DUPONT DE NEMOURS AND COMPANY
17 (B) STREET: 1007 MARKET STREET
18 (C) CITY: WILMINGTON
19 (D) STATE: DELAWARE
20 (E) COUNTRY: UNITED STATES OF AMERICA
21 (F) ZIP: 19898

22

23 (iv) CORRESPONDENCE ADDRESS:

24 (A) ADDRESSEE: GENENCOR INTERNATIONAL, INC.
25 (B) STREET: 4 CAMBRIDGE PLACE
26 1870 SOUTH WINTON ROAD
27 (C) CITY: ROCHESTER
28 (D) STATE: NEW YORK
29 (E) COUNTRY: UNITED STATES OF AMERICA
30 (F) ZIP: 14618

31

32 (v) COMPUTER READABLE FORM:

33 (A) MEDIUM TYPE: 3.50 INCH DISKETTE
34 (B) COMPUTER: IBM PC COMPATIBLE
35 (C) OPERATING SYSTEM: MICROSOFT WORD FOR WINDOWS 95
36 (D) SOFTWARE: MICROSOFT WORD VERSION 7.0a

37

38 (vi) CURRENT APPLICATION DATA:

39 (A) APPLICATION NUMBER:

40 (B) FILING DATE:

41 (C) CLASSIFICATION:

42

43 (vii) PRIOR APPLICATION DATA:

44 (A) APPLICATION NUMBER: 08/440,293

45 (B) FILING DATE: MAY 12, 1995

46

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/849,404DATE: 09/09/97
TIME: 12:33:24

INPUT SET: S20138.raw

47 (viii) ATTORNEY/AGENT INFORMATION:
48 (A) NAME: LINDA AXAMETHY FLOYD
49 (B) REGISTRATION NUMBER: 33,692
50 (C) REFERENCE/DOCKET NUMBER: CR-9715-C
51
52 (ix) TELECOMMUNICATION INFORMATION:
53 (A) TELEPHONE: 302-892-8112
54 (B) TELEFAX: 302-773-0164
55
56

57 (2) INFORMATION FOR SEQ ID NO:1:
58
59 (i) SEQUENCE CHARACTERISTICS:
60 (A) LENGTH: 12145 base pairs
61 (B) TYPE: nucleic acid
62 (C) STRANDEDNESS: single
63 (D) TOPOLOGY: linear
64
65 (ii) MOLECULE TYPE: DNA (genomic)
66
67 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:
68

69 GTCGACCACC ACGGTGGTGA CTTTAATGCC GCTCTCATGC AGCAGCTCGG TGGCGGTCTC	60
70 AAAATTCAAG ATGTCGCCGG TATAAGTTTT GATAATCAGC AAGACGCCCT CGCCGCCGTC	120
71 AATTTGCATC GCGCATTCAA ACATTTGTC CGGCGTCGGC GAGGTGAATA TTTCCCCCGG	180
72 ACAGGCGCCG GAGAGCATGC CCTGGCCGAT ATAGCCGCAG TGCATCGGTT CATGTCCGCT	240
73 GCCGCCGCCG GAGAGCAGGG CCACCTTGCC AGCCACCGGC GCGTCGGTGC GGGTCACATA	300
74 CAGCGGGTCC TGATGCAGGG TCAGCTGCGG ATGGGCTTTA GCCAGCCCT GTAATTGTT	360
75 ATTCACTACA TCTTCAACAC GGTTAACAG CTTTTTCATT ATTCACTGCT CCGTTGGAGA	420
76 AGGTTCGATG CCGCCTCTCT GCTGGCGGAG GCGGTCACTCG CGTAGGGGTA TCGTCTGACG	480
77 GTGGAGCGTG CCTGGCGATA TGATGATTCT GGCTGAGCGG ACGAAAAAAA GAATGCCCG	540
78 ACGATCGGGT TTCATTACGA AACATTGCTT CCTGATTGG TTTCTTTATG GAACGTTTT	600
79 GCTGAGGATA TGGTAAAAAT GCGAGCTGGC GCGCTTTTT TCTTCTGCCA TAAGCGCGG	660
80 TCAGGATAGC CGGCGAACGCG GGTGGGAAAA AATTTTTGCT TGATTTCTG CCGACTGCAG	720
81 GAGAAAAGGC GGTCAAACAC GGAGGATTGT AAGGGCATTA TGCAGGAAAG GAGCGGATCG	780
82 GGATCGCAAT CCTGACAGAG ACTAGGGTTT TTTGTTCCAA TATGGAACGT AAAAAATTAA	840
83 CCTGTGTTTC ATATCAGAAC AAAAAGGCGA AAGATTTTT TGTTCCCTGC CGGCCCTAGA	900
84 GTGATCGCAC TGCTCCGGTA CGCTCCGTTC AGGCCGCGCT TCACTGGCCG GCGCGGATAA	960

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/849,404DATE: 09/09/97
TIME: 12:33:29

INPUT SET: S20138.raw

100	CGCCAGGGCT CATCATGTCT ACATGCGCAC TTATTTGAGG GTGAAAGGAA TGCTAAAAGT	1020
101	TATTCAATCT CCAGCCAAAT ATCTTCAGGG TCCTGATGCT GCTGTTCTGT TCGGTCAATA	1080
102	TGCCAAAAAC CTGGCGGAGA GCTTCTTCGT CATCGCTGAC GATTCGTAA TGAAGCTGGC	1140
103	GGGAGAGAAA GTGGTGAATG GCCTGCAGAG CCACGATATT CGCTGCCATG CGGAACGGTT	1200
104	TAACGGCGAA TGCAGGCCATG CGGAAATCAA CCGTCTGATG GCGATTTGC AAAAACAGGG	1260
105	CTGCCGCGGC GTGGTCGGGA TCGGCCGGTGG TAAAACCCTC GATACCGCGA AGGCGATCGG	1320
106	TTACTACCAG AAGCTGCCGG TGGTGGTGTAT CCCGACCATC GCCTCGACCG ATGCGCCAAC	1380
107	CAGCGCGCTG TCGGTGATCT ACACCGAACG GGGCGAGTTT GAAGAGTATC TGATCTATCC	1440
108	GAAAAACCCG GATATGGTGG TGATGGACAC GGCGATTATC GCCAAAGCGC CGGTACGCC	1500
109	GCTGGTCTCC GGCAATGGCG ATGCGCTCTC CACCTGGTTC GAGGCCAAAG CTTGCTACGA	1560
110	TGCCCGCGCC ACCAGCATGG CCGGAGGACA GTCCACCGAG GCGGCCGCTGA GCCTCGCCCG	1620
111	CCTGTGCTAT GATACGCTGC TGGCGGAGGG CGAAAAGGCC CGTCTGGCGG CGCAGGCCGG	1680
112	GGTAGTGACC GAAGCGCTGG AGCGCATCAT CGAGGCGAAC ACTTACCTCA GCGGCATTGG	1740
113	CTTTGAAAGC AGTGGCCTGG CCGCTGCCA TGCAATCCAC AACGGTTTCA CCATTCTTGA	1800
114	AGAGTGCCAT CACCTGTATC ACGGTGAGAA AGTGGCCTTC GGTACCCCTGG CGCAGCTGGT	1860
115	GCTGCAGAAC AGCCCGATGG ACGAGATTGA AACGGTGCAG GGCTTCTGCC AGCGCGTCGG	1920
116	CCTGCCGGTG ACGCTCGCGC AGATGGCGT CAAAGAGGGG ATCGACGAGA AAATGCCCGC	1980
117	GGTGGCGAAA GCTACCTGCG CGGAAGGGGA AACCATCCAT AATATGCCGT TTGCGGTGAC	2040
118	CCCAGGAGAGC GTCCATGCCG CTATCCTCAC CGCCGATCTG TTAGGCCAGC AGTGGCTGGC	2100
119	GCGTTAATTG CCGGTGGCTA AACCGCTGGC CCAGGTCAGC GGTTTTCTT TCTCCCTCC	2160
120	GGCAGTCGCT GCCGGAGGGG TTCTCTATGG TACAACGCGG AAAAGGATAT GACTGTTCAG	2220
121	ACTCAGGATA CCGGGAAGGC GGTCTCTTCC GTCATTGCC AGTCATGGCA CCGCTGCAGC	2280
122	AAGTTTATGC AGCGCGAAC CTGGCAAACG CCGCACCAAG CCCAGGGCCT GACCTTCGAC	2340
123	-	
124	TCCATCTGTC GGCGTAAAC CGCGCTGCTC ACCATCGGCC AGGCCGGCGT GGAAGACGCC	2400
125	TGGGAGTTA TGGACGGCCG CCCCTGCGCG CTGTTTATTC TTGATGAGTC CGCCTGCATC	2460
126	CTGAGCCGTT CGGGCGAGCC GCAAACCCCTG GCCCAGCTGG CTGCCCTGGG ATTTCGCGAC	2520
127	.	

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/849,404DATE: 09/09/97
TIME: 12:33:35

INPUT SET: S20138.raw

153	GGCAGCTATT GTGCGGAGAG CATTATCGGC ACCTGCGCGC TGTCGCTGGC CGCGATGCAG	2580
154	GGCCAGCCGA TCAACACCGC CGCGATCGG CATTAAAGC AGGCCTACA GCCATGGAGT	2640
156	TTTGCTCGA CGCCGGTGT TGATAACCAC GGGCGGCTGT TCGGCTCTAT CTCGCTTTGC	2700
157	TGTCTGGTCG AGCACCCAGTC CAGCGCCGAC CTCTCCCTGA CGCTGGCCAT CGCCCGCGAG	2760
158	GTGGGTAACT CCCTGCTTAC CGACAGCCTG CTGGCGGAAT CCAACCGTCA CCTCAATCAG	2820
160	ATGTACGGCC TGCTGGAGAG CATGGACGAT GGGGTGATGG CGTGGAACGAG ACAGGGCGTG	2880
161	CTGCAGTTTC TCAATGTTCA GGCGCGAGA CTGCTGCATC TTGATGCTCA GGCCAGCCAG	2940
163	GGGAAAAATA TCGCCGATCT GGTGACCCCTC CCGCGCTGC TGCGCCGCGC CATCAAACAC	3000
164	GCCCCGGGCC TGAATCACGT CGAACGTCACC TTTGAAAGTC AGCATCAGTT TGTCGATGCG	3060
165	GTGATCACCT TAAAACCGAT TGTCGAGGCG CAAGGCAACA GTTTTATTCT GCTGCTGCAT	3120
167	CCGGTGGAGC AGATGCGGCA GCTGATGACC AGCCAGCTCG GTAAAGTCAG CCACACCTTT	3180
168	GAGCAGATGT CTGCCGACGA TCCGGAAACC CGACGCCTGA TCCACTTTGG CCGCCAGGCG	3240
169	GCGCGCGCG GCTTCCCGGT GCTACTGTGC GGCGAAGAGG GGGTCGGGAA AGAGCTGCTG	3300
170	AGCCAGGCTA TTCACAATGA AAGCGAACGG GCGGGCGGCC CCTACATCTC CGTCAACTGC	3360
171	CAGCTATATG CCGACAGCGT GCTGGGCCAG GACTTTATGG GCAGCGCCCC TACCGACGAT	3420
172	GAAAATGGTC GCCTGAGCCG CCTTGAGCTG GCCAACGGCG GCACCCCTGTT TCTGGAAAAG	3480
173	ATCGAGTATC TGGGCCGGA GCTGCAGTCG GCTCTGCTGC AGGTGATTAA GCAGGGCGTG	3540
174	CTCACCCGCC TCGACGCCCG GCGCCTGATC CCGGTGGATG TGAAGGTGAT TGCCACCACC	3600
175	ACCGTCGATC TGGCCAATCT GGTGGAACAG AACCGCTTTA GCCGCCAGCT GTACTATGCG	3660
176	CTGCACTCCT TTGAGATCGT CATCCCGCCG CTGCGCGCCC GACCGAACAG TATTCCGTG	3720
177	CTGGTGCATA ACCGGTTGAA GAGCCTGGAG AAGCGTTCT CTTCGCGACT GAAAGTGGAC	3780
178	GATGACGCGC TGGCACAGCT GGTGGCCTAC TCGTGGCCGG GGAATGATTT TGAGCTCAAC	3840
179	AGCGTCATTG AGAATATCGC CATCAGCAGC GACAACGGCC ACATTCGCCT GAGTAATCTG	3900
180	CCGGAATATC TCTTTCCGA GCGGCAGGC GGGGATAGCG CGTCATCGCT GCTGCCGGCC	3960
181	AGCCTGACTT TTAGCGCCAT GAAAAGGAA GCTATTATTC ACGCCGCCCG GGTGACCAGC	4020
182	GGCGGGTGC AGGAGATGTC GCAGCTGCTC AATATCGGCC GCACCACCCGTGGCGCAAA	4080
183	ATGAAGCAGT ACGATATTGA CGCCAGCCAG TTCAAGCGCA AGCATCAGGC CTAGTCTCTT	4140

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/849,404DATE: 09/09/97
TIME: 12:33:40

INPUT SET: S20138.raw

206	CGATTGCGC	CATGGAGAAC	AGGGCATCCG	ACAGGCCATT	GCTGTAGCGT	TTGAGCGCGT	4200
207	CGCCGAGCGG	ATGCGCCGG	TCCATGGCCG	TCAGCAGGCG	TTCGAGCCGA	CGGGACTGGG	4260
208	TGCGCGCCAC	GTGCAGCTGG	GCAGAGGCGA	GATTCCCTCCC	CGGGATCACG	AACTGTTTTA	4320
209	ACGGGCCGCT	CTCGGCCATA	TTGCGGTGCA	TAAGCCGCTC	CAGGGCGGTG	ATCTCCCTTT	4380
210	CGCCGATCGT	CTGGCTCAGG	CGGGTCAGGC	CCCGCCATC	GCTGGCCAGT	TCAGCCCCCA	4440
211	GCACGAACAG	CGTCTGCTGA	ATATGGTGCA	GGCTTTCCCG	CAGCCCGGCG	TCGCGGGTCG	4500
212	TGGCGTAGCA	GACGCCAGC	TGGGATATCA	GTTCATCGAC	GGTGCCGTAG	GCCTCGACGC	4560
213	GAATATGGTC	TTTCTCGATG	CGGCTGCCGC	CGTACAGGGC	GGTGGTGCCT	TTATCCCCGG	4620
214	TGCGGGTATA	GATACGATAAC	ATTCAAGTTTC	TCTCACTTAA	CGGCAGGACT	TTAACCAAGCT	4680
215	GCCCCGGCGTT	GGCGCCGAGC	GTACGCAGTT	GATCGTCGCT	ATCGGTGACG	TGTCCGGTAG	4740
216	CCAGGGCGC	GTCCGCCGGC	AGCTGGGCAT	GAGTGAGGGC	TATCTGCCG	GACGGCTGA	4800
217	GCCCCGATACC	CACCCGCAGG	GGCGAGCTTC	TGGCCGCCAG	GGCGCCCAGC	GCAGCGGCAGT	4860
218	CACCGCCTCC	GTCATAGGTT	ATGGTCTGGC	AGGGGACCCC	CTGCTCCTCC	AGCCCCCAGC	4920
219	ACAGCTCATT	GATGGCGCCG	GCATGGTGCC	CGCGCGGATC	GTAAAACAGG	CGTACGCCCTG	4980
220	GCGGTGAAAG	CGACATGACG	GTCCCCTCGT	TAACACTCAG	AATGCCTGGC	GGAAAATCGC	5040
221	GGCAATCTCC	TGCTCGTTGC	CTTTACGCGG	GTTCGAGAAC	GCATTGCCGT	CTTTTAGAGC	5100
222	CATCTCCGCC	ATGTAGGGGA	AGTCGGCCTC	TTTTACCCCC	AGATCGCGCA	GATGCTGCCG	5160
223	AATACCGATA	TCCATCGACA	GACGCGTGAT	AGCGCGATG	GCTTTTCCG	CCGCGTCGAG	5220
224	AGTGGACAGT	CCGGTGATAT	TTTCGCCCCAT	CAGTTCAGCG	ATATCGCGA	ATTTCTCCGG	5280
225	GTTGGCGATC	AGGTTGTAGC	GCGCCACATG	CGGCAGCAGG	ACAGCGTTGG	CCACGCCGTG	5340
226	CGGCATGTCG	TACAGGCCGC	CCAGCTGGTG	CGCCATGGCG	TGCACGTAGC	CGAGGTTGGC	5400
227	GTTATTGAAA	GCCATCCCGG	CCAGCAGAGA	AGCATAGGCC	ATGTTTCCC	GCGCCTGCAG	5460
228	ATTGCTGCCG	AGGGCCACGG	CCTGGCGCAG	GTTGCGGGCG	ATGAGGCCGA	TCGCCTGCAT	5520
229	GGCGGCCGGCG	TCCGTCACCG	GGTTAGCGTC	TTTGGAGATA	TAGGCCTCTA	CGGCCTGGGT	5580
230	CAGGGCATCC	ATCCCGGTGCG	CCGCGGTCA	GGCGGCCGGT	TTACCGATCA	TCAGCAGTGG	5640
231	ATCGTTGATA	GAGACCGACG	GCAGTTGCG	CCAGCTGACG	ATCACAAACT	TCACTTTGGT	5700

******* PREVIOUSLY ERRORED SEQUENCES - EDITED *******

1005 (2) INFORMATION FOR SEQ ID NO:39:
1006
1007 (i) SEQUENCE CHARACTERISTICS:
1008 (A) LENGTH: 34 base pairs
1009 (B) TYPE: nucleic acid
1010 (C) STRANDEDNESS: single
1011 (D) TOPOLOGY: linear
1012
1013 (ii) MOLECULE TYPE: DNA (genomic)
1014
1015 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:39:
1016
1017 GGAATTCAGA TCTCAGCAAT GCAACAGACA ACCC
1018

PAGE: 1

**SEQUENCE VERIFICATION REPORT
PATENT APPLICATION US/08/849,404**

DATE: 09/09/97
TIME: 12:33:48

INPUT SET: S20138.raw

Line Error

Original Text

PAGE: 1

**RAW SEQUENCE LISTING
PATENT APPLICATION US/08/849,404**DATE: 09/09/97
TIME: 12:26:54**INPUT SET: S20138.raw**

This Raw Listing contains the General
Information Section and those Sequences
containing ERRORS.

Does Not Comply
Corrected Diskette Needed

1 **SEQUENCE LISTING**
2
3 (1) General Information:
4
5 (i)APPLICANT:LISA ANNE LAFFEND
6 VASANTHA NAGARAJAN
7 CHARLES EDWIN NAKAMURA
8
9 (ii)TITLE OF INVENTION:BIOCONVERSION OF A FERMENTABLE
10 CARBON SOURCE TO 1,3-PROPANE-
11 DIOL BY A SINGLE MICROORGANISM
12
13 (iii)NUMBER OF SEQUENCES: 46
14
15 (iv)CORRESPONDENCE ADDRESS:
16 (A)ADDRESSEE: E. I. DUPONT DE NEMOURS AND COMPANY
17 (B)STREET: 1007 MARKET STREET
18 (C)CITY: WILMINGTON
19 (D)STATE: DELAWARE
20 (E)COUNTRY: UNITED STATES OF AMERICA
21 (F)ZIP: 19898
22
23 (iv)CORRESPONDENCE ADDRESS:
24 (A)ADDRESSEE: GENENCOR INTERNATIONAL, INC.
25 (B)STREET: 4 CAMBRIDGE PLACE
26 1870 SOUTH WINTON ROAD
27 (C)CITY: ROCHESTER
28 (D)STATE: NEW YORK
29 (E)COUNTRY: UNITED STATES OF AMERICA
30 (F)ZIP: 14618
31
32 (v)COMPUTER READABLE FORM:
33 (A)MEDIUM TYPE: 3.50 INCH DISKETTE
34 (B)COMPUTER: IBM PC COMPATIBLE
35 (C)OPERATING SYSTEM: MICROSOFT WORD FOR WINDOWS 95
36 (D)SOFTWARE: MICROSOFT WORD VERSION 7.0a
37
38 (vi)CURRENT APPLICATION DATA:
39 (A)APPLICATION NUMBER:
40 (B)FILING DATE:
41 (C)CLASSIFICATION:
42
43 (vii)PRIOR APPLICATION DATA:
44 (A)APPLICATION NUMBER: 08/440,293
45 (B)FILING DATE: MAY 12, 1995

INPUT SET: S20138.raw

46
47 (viii) ATTORNEY/AGENT INFORMATION:
48 (A) NAME: LINDA AXAMETHY FLOYD
49 (B) REGISTRATION NUMBER: 33,692
50 (C) REFERENCE/DOCKET NUMBER: CR-9715-C
51
52 (ix) TELECOMMUNICATION INFORMATION:
53 (A) TELEPHONE: 302-892-8112
54 (B) TELEFAX: 302-773-0164
55
56

ERRORED SEQUENCES FOLLOW:

1005 (2) INFORMATION FOR SEQ ID NO:39:
1006 (i)
---> 1007 (I) SEQUENCE CHARACTERISTICS:
---> 1008 (A) LENGTH: 34 base pairs
---> 1009 (B) TYPE: nucleic acid
---> 1010 (C) STRANDEDNESS: single
---> 1011 (D) TOPOLOGY: linear
1012
1013 (ii) MOLECULE TYPE: DNA (genomic)
1014
---> 1015 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:39:
1016
1017 GGAATTCAAG TCTCAGCAAT GCAACAGACA ACCC
1018

34

PAGE: 1

SEQUENCE VERIFICATION REPORT
PATENT APPLICATION US/08/849,404

DATE: 09/09/97
TIME: 12:27:02

INPUT SET: S20138.raw

Line	Error	Original Text
994	Entered (35) and Calc. Seq. Length (34) differ	(A)LENGTH: 35 base pairs
1007	Unknown or Misplaced Identifier	(I)SEQUENCE CHARACTERISTICS:
1008	Unknown or Misplaced Identifier	(A)LENGTH: 34 base pairs
1009	Unknown or Misplaced Identifier	(B)TYPE: nucleic acid
1010	Unknown or Misplaced Identifier	(C)STRANDEDNESS: single
1011	Unknown or Misplaced Identifier	(D)TOPOLOGY: linear
1015	Wrong Or Missing Strandedness Value	(xi)SEQUENCE DESCRIPTION: SEQ ID NO:39:
1015	Wrong or Missing Sequence Topology	(xi)SEQUENCE DESCRIPTION: SEQ ID NO:39:



CRF Errors Corrected by the STIC System Branch

1808

Serial Number: 08/849,404CRF Processing Date: 9/8/97
Edited by: A
Verified by: A (STIC staff)

Changed a file from non-ASCII to ASCII

Changed the margins in cases where the sequence text was "wrapped" down to the next line.

Edited a format error in the Current Application Data section, specifically:

Edited the Current Application Data section with the actual current number. The number inputted by the applicant was the prior application data; or other _____

Added the mandatory heading and subheadings for "Current Application Data".

Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.

Changed the spelling of a mandatory field (the headings or subheadings), specifically:

Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were:

Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.

Inserted colons after headings/subheadings. Headings edited included:

Deleted extra, invalid, headings used by an applicant, specifically:

Deleted: non-ASCII "garbage" at the beginning/end of files; secretary initials/filename at end of file;
 page numbers throughout text; other invalid text, such as _____

Inserted mandatory headings, specifically:

Corrected an obvious error in the response, specifically:

Edited identifiers where upper case is used but lower case is required, or vice versa.

Corrected an error in the Number of Sequences field, specifically:

A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.

Deleted **ending** stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: _____

Other:

*Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.

3/1/95